



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**TRANSMITTAL LETTER (Large Entity)**

Application Number: 09/188,241

Group Art Unit: 2816

Filed: November 9, 1998

Examiner Name: England

Applicant: Luo

Attorney Docket Number: Luo 4

TITLE: REDUCED CHARGE INJECTION IN CURRENT SWITCH

Total Number of Pages in this Submission: 11

DIRECTOR OF US PATENT AND TRADEMARK OFFICE  
WASHINGTON, DC 20231

SIR:

Transmitted herewith are  
an amendment in the above-identified application (11 Pages)

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED					
	CLAIMS REMAINING AFTER Amendment	HIGHEST # PREV. PAID FOR	# OF EXTRA CLAIMS	RATE	ADDITIONAL FEE
Total Claims	17	18	0	x \$18 =	\$ 0.00
Independent Claims	4	4	0	x \$84 =	\$ 0.00
Multiple Dependent Claim(s), if applicable				x \$280 =	
TOTAL ADDITIONAL FEE:					\$ 0.00

The Commissioner is hereby authorized to charge any additional fees required under 37 C.F.R. 1.16 or any patent application processing fees under 37 C.F.R. 1.17 associated with this communication, or credit any over payment to **Deposit Account No. 50-0687 under Order No. 73-825.**

Respectfully submitted,

William H. Bollman

Reg. No.: 36,457

Attorney for Applicant(s)

Date: March 27, 2003

Manelli Denison & Selter PLLC  
2000 M Street, NW Suite 700  
Washington, DC 20036-3307  
(202) 261-1020

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**



Serial No.: 09/188,241  
Filed: November 9, 1998  
Group Art Unit: 2816  
Examiner: Englund  
Atty Docket No.: Luo 4  
Our Ref.: 73-825

IN RE PATENT APPLICATION OF:

**LUO**

TITLE: **REDUCED CHARGE INJECTION IN CURRENT SWITCH**

**AMENDMENT**

Director of U.S. Patent and Trademark Office  
Washington, D.C. 20231

Sir:

Responsive to the Office Action dated December 31, 2002, please  
amend the subject application as follows:

**IN THE SPECIFICATION:**

Kindly replace the following paragraphs in the specification with the  
indicated text:

**Clean Set of Paragraphs for the Specification**

Page 7, paragraph starting at line 17:

The positive input of the pull-down amp **400** is connected to the  
load side of the switch **MS** through an input resistor **R1** and an input capacitor  
**C1**, while the negative input to the pull-down amp **400** is connected to one side of  
the mirror path switch **MT**. The other side of the mirror path switch **MT** is  
connected to the current source side of the switch **MS**.